
FOREWORD

Special Section on Nonlinear Theory and its Applications

The 13th NOLTA, the 2002 International Symposium on Nonlinear Theory and its Applications, was held at Xi'an, the origin of the Silk Road, Oct. 7-11, in conjunction with the ISITA, the 2002 International Symposium on Information Theory and its Applications. The number of papers submitted to the NOLTA 2002 was 313 and 244 papers are included in the technical program. These papers are blended with the accepted papers of ISITA'02 and are divided into 91 sessions. Besides them, the TPCs of ISITA and NOLTA invited 3 speakers for the plenary session and arranged 2 joint special sessions.

This special section has been planned in order to promote activity of nonlinear field by submission particularly from, but not restricted to, people who presented new theories and applications in NOLTA 2002. The 18 papers and 3 letters were selected for the special section from 43 submissions through careful review process. These papers are roughly classified into five categories;

- 1) Numerical Calculation,
- 2) Nonlinear Phenomena,
- 3) Nonlinear Signal Processing and Coding,
- 4) Neuro, Fuzzy, GA,

and

- 5) Optimization and Control.

On behalf of the Guest Editorial Committee of this special section, I would like to thank all the authors for their contributions. I also appreciate the voluntary work of the reviewers and the Guest Associate Editors listed below for their help in publishing this special section. My deepest gratitude is offered to Associate Professor Tetsushi Ueta of Tokushima University for his patience with hard secretary works.

Guest Associate Editors

Hideki Asai (Shizuoka University), Shinji Doi (Osaka University), Yoshinori Hayakawa (Tohoku University), Takashi Hikiyama (Kyoto University), Tohru Ikeguchi (Saitama University), Kenya Jin'no (Nippon Institute of Technology), Takashi Morie (Kyushu Institute of Technology), Hiroyuki Nakajima (Kinki University), Toshimichi Saito (Hosei University), Mamoru Tanaka (Sophia University), Yuichi Tanji (Kagawa University), Toshimitsu Ushio (Osaka University), Kiyotaka Yamamura (Chuo University), Tetsuya Yoshinaga (Tokushima University)

Secretary

Tetsushi Ueta (Tokushima University)

Yoshifumi Nishio, Guest Editor

Yoshifumi Nishio (*Regular Member*) was born in Ise, Japan on January 24, 1966. He received the B.E., M.E., and Ph.D. degrees in electrical engineering from Keio University, Yokohama Japan, in 1988, 1990, and 1993, respectively. In 1993, he joined the Department of Electrical and Electronic Engineering at Tokushima University, Tokushima, Japan, where he is currently an Associate Professor. From May 2000 he spent a year in the Laboratory of Nonlinear Systems (LANOS) at the Swiss Federal Institute of Technology Lausanne (EPFL) as a visiting professor. His research interests include analysis and application of chaos in electrical circuits, analysis of synchronization in coupled oscillators circuits, development of analyzing methods for nonlinear circuits and theory and application of cellular neural networks. He is a member of the IEEE.

